

WHAT IS CLAIMED IS:

1. An in-plane switching mode liquid crystal display device comprising:

a first substrate;

a second substrate;

a liquid crystal layer sandwiched between the first substrate and the second substrate;

a shielding material sealing the liquid crystal layer between the first substrate and the second substrate;

a plurality of video signal lines formed on the first substrate;

a plurality of scanning signal lines formed on the first substrate;

a plurality of counter signal lines formed on the first substrate, the video signal lines, the scanning signal lines, and the counter signal lines defining pixel areas on the first substrate surrounded by the video signal lines, the scanning signal lines, and the counter signal lines, the pixel areas collectively constituting a display area;

a pixel electrode formed in each of the pixel areas;

a counter electrode formed in each of the pixel areas, the counter electrode being spaced apart from the

pixel electrode and being connected to one of the counter signal lines;

a thin-film transistor formed in each of the pixel areas, the thin-film transistor being driven by a scanning signal from one of the scanning signal lines to supply a video signal from one of the video signal lines to the pixel electrode;

at least one first protection element line formed between the display area and the shielding material;

high-resistance elements connecting the at least one first protection element line to the video signal lines;

at least one second protection element line formed between the display area and the shielding material;

high-resistance elements connecting the at least one second protection element line to the scanning signal lines;

at least one common line electrically connecting the counter signal lines together;

high-resistance elements connecting the at least one first protection element line to the at least one common line; and

high-resistance elements connecting the at least one second protection element line to the at least one common line.

2. An in-plane switching mode liquid crystal display device according to claim 1, wherein each of the high-resistance elements includes a thin-film transistor having a gate electrode and a source electrode connected to each other.

3. An in-plane switching mode liquid crystal display device according to claim 1, wherein each of the high-resistance elements includes a diode constituted by a thin-film transistor having a gate electrode and a source electrode connected to each other.

4. An in-plane switching mode liquid crystal display device comprising:

- a first substrate;
- a second substrate;
- a liquid crystal layer sandwiched between first substrate and the second substrate;
- a shielding material sealing the liquid crystal layer between the first substrate and the second substrate;
- a plurality of scanning signal lines provided on the first substrate;
- a plurality of video signal lines provided on the first substrate;
- a plurality of counter signal lines provided on the first substrate, the scanning signal lines, the video

signal lines, and the counter signal lines defining pixel areas on the first substrate surrounded by the scanning signal lines, the video signal lines, and the counter signal lines, the pixel areas collectively constituting a display area;

a pixel electrode provided in each of the pixel areas;

a counter electrode provided in each of the pixel areas, the counter electrode being spaced apart from the pixel electrode and being connected to one of the counter signal lines;

a thin-film transistor provided in each of the pixel areas, the thin-film transistor being driven by a scanning signal from one of the scanning signal lines to supply a video signal from one of the video signal lines to the pixel electrode;

a protection element line provided around the display area, the protection element line being disposed between the display area and the shielding material;

at least one common line electrically connecting the counter signal lines together;

at least one diode connecting the protection element line to the video signal lines and the scanning signal lines; and

at least one diode connecting the protection element line to the at least one common line.

5. An in-plane switching mode liquid crystal display device according to claim 4, wherein each of the diodes is constituted by a thin-film transistor having a gate electrode and a source electrode connected to each other.